

APPLN. FILING DATE: JULY 29, 2003

TITLE: CONTROL APPARATUS FOR CONTROLLING A SHIFT
OPERATION IN AN AUTOMATIC TRANSMISSION AND A
METHOD OF DESIGNING THE SAME

INVENTOR(S): AKIRA AIKAWA ET AL.

ATTORNEY DOCKET NO: 000409-050

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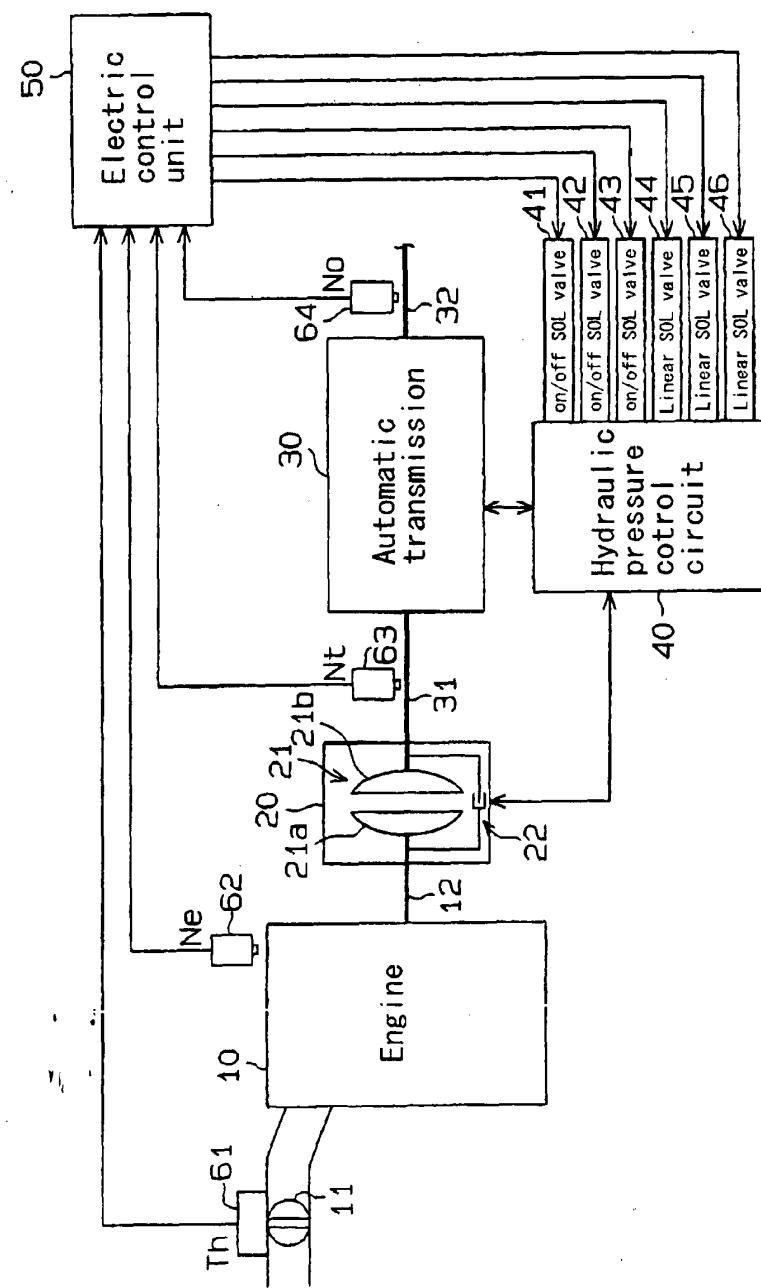
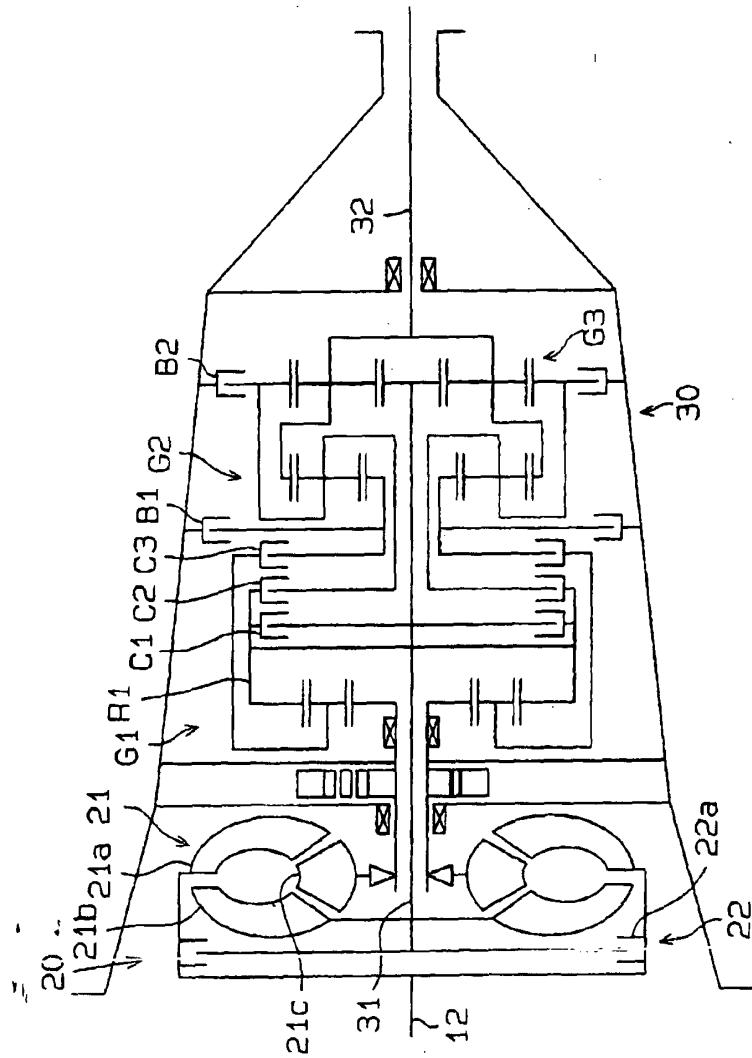


FIG. 1

FIG. 2



F I G. 3

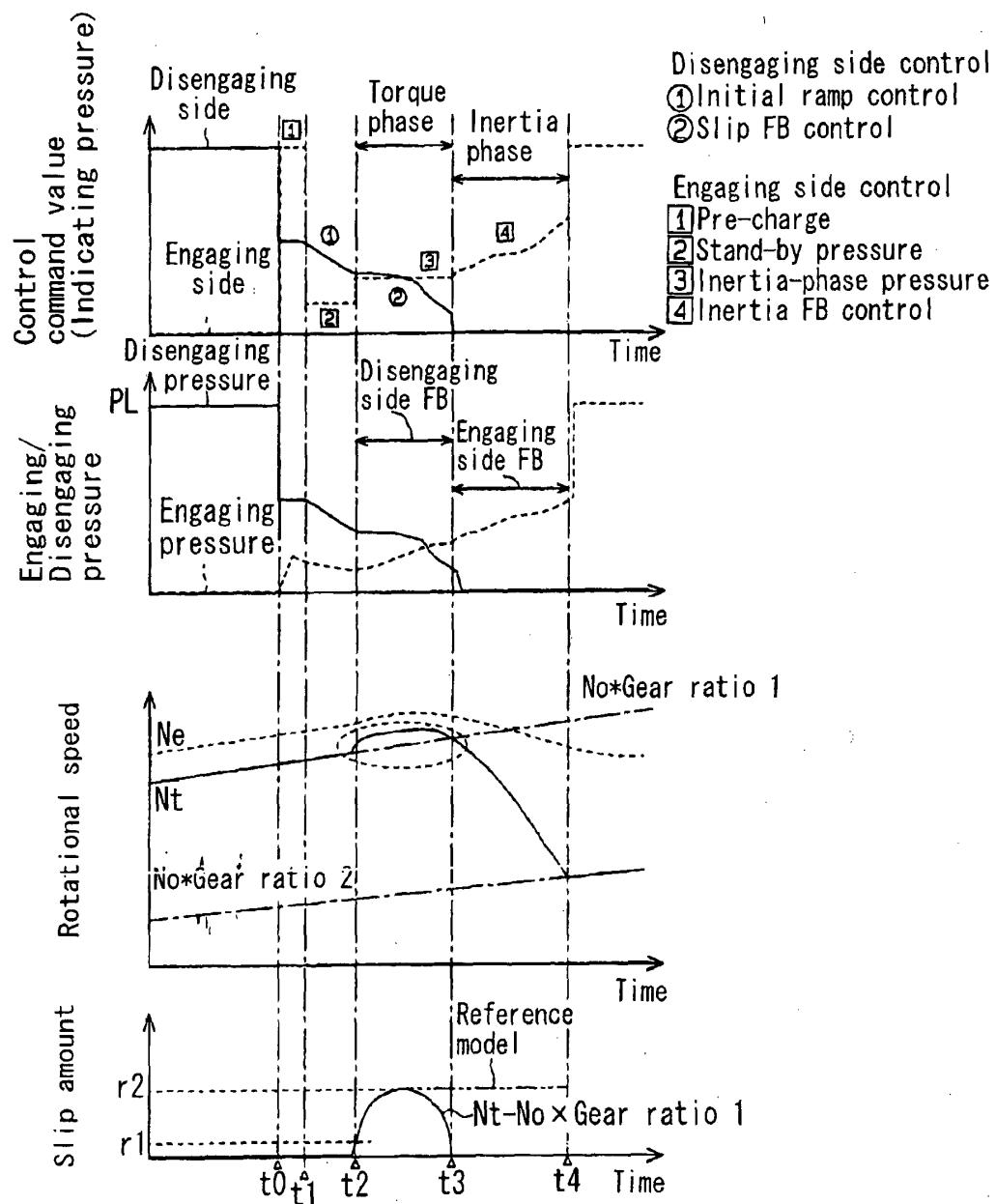
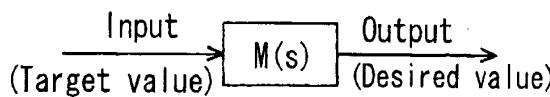


FIG. 4



$M(s)$: Reference model

FIG. 5

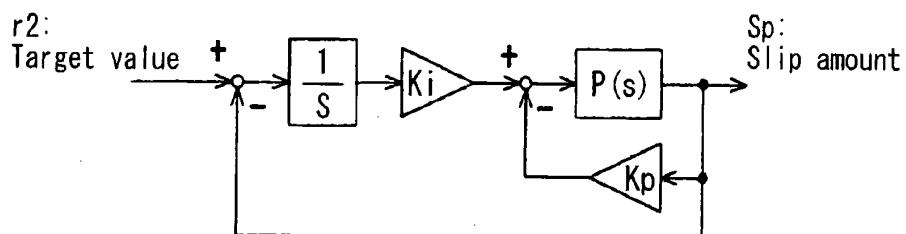
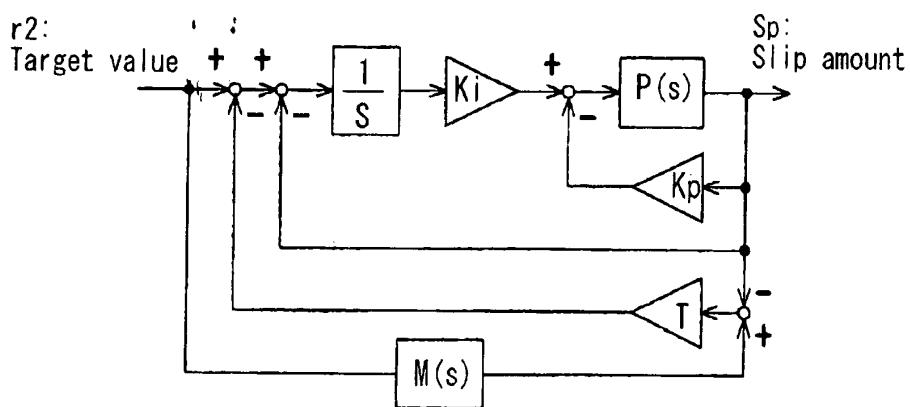


FIG. 6



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FIG. 7

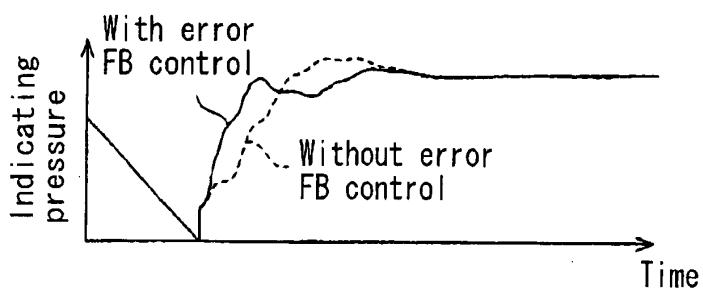
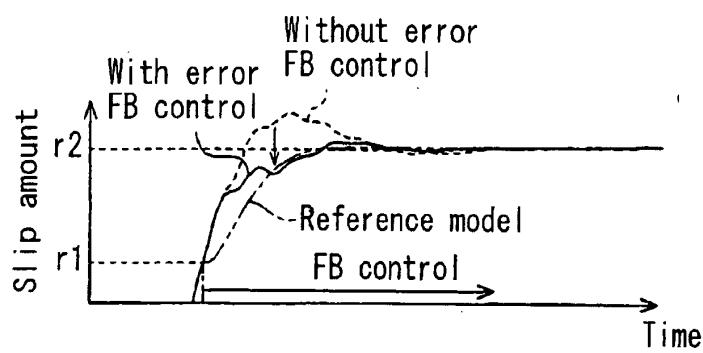


FIG. 8

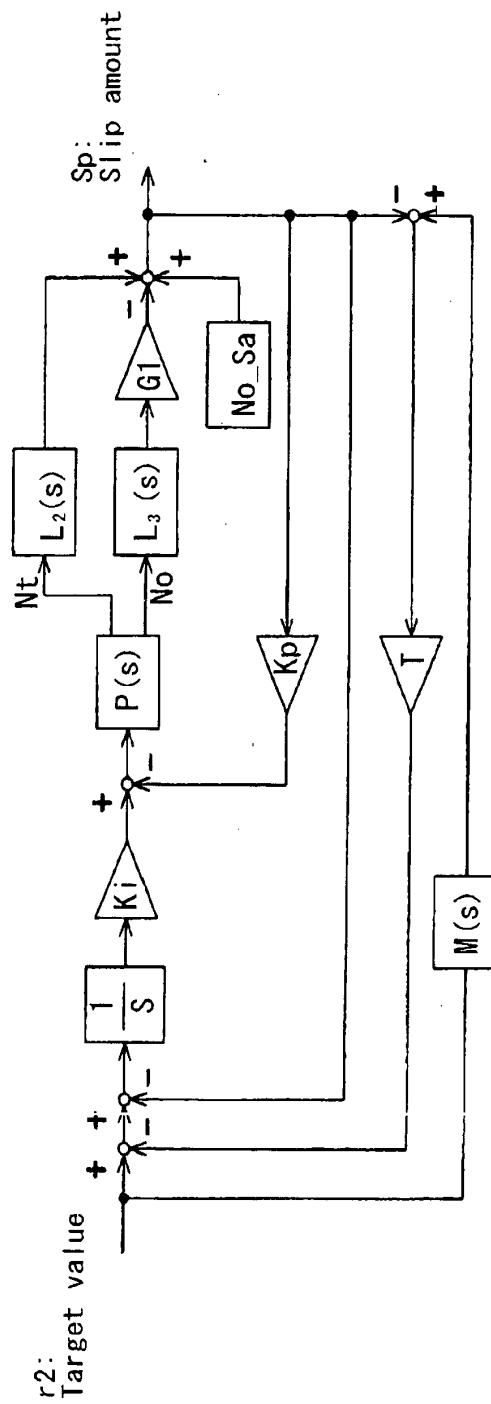


FIG. 9

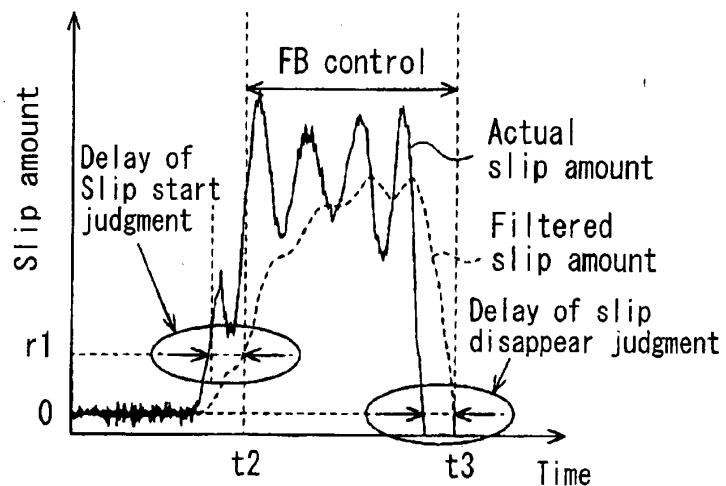
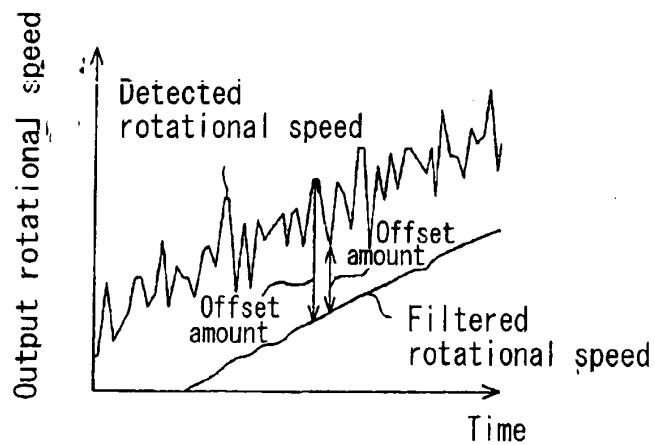


FIG. 10



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FIG. 11

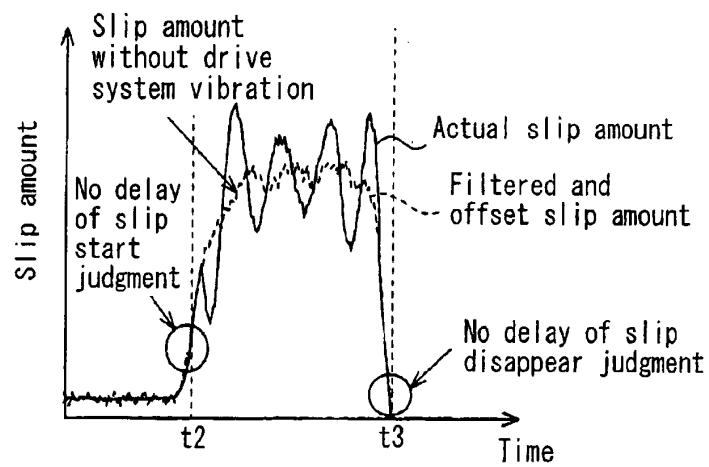


FIG. 12

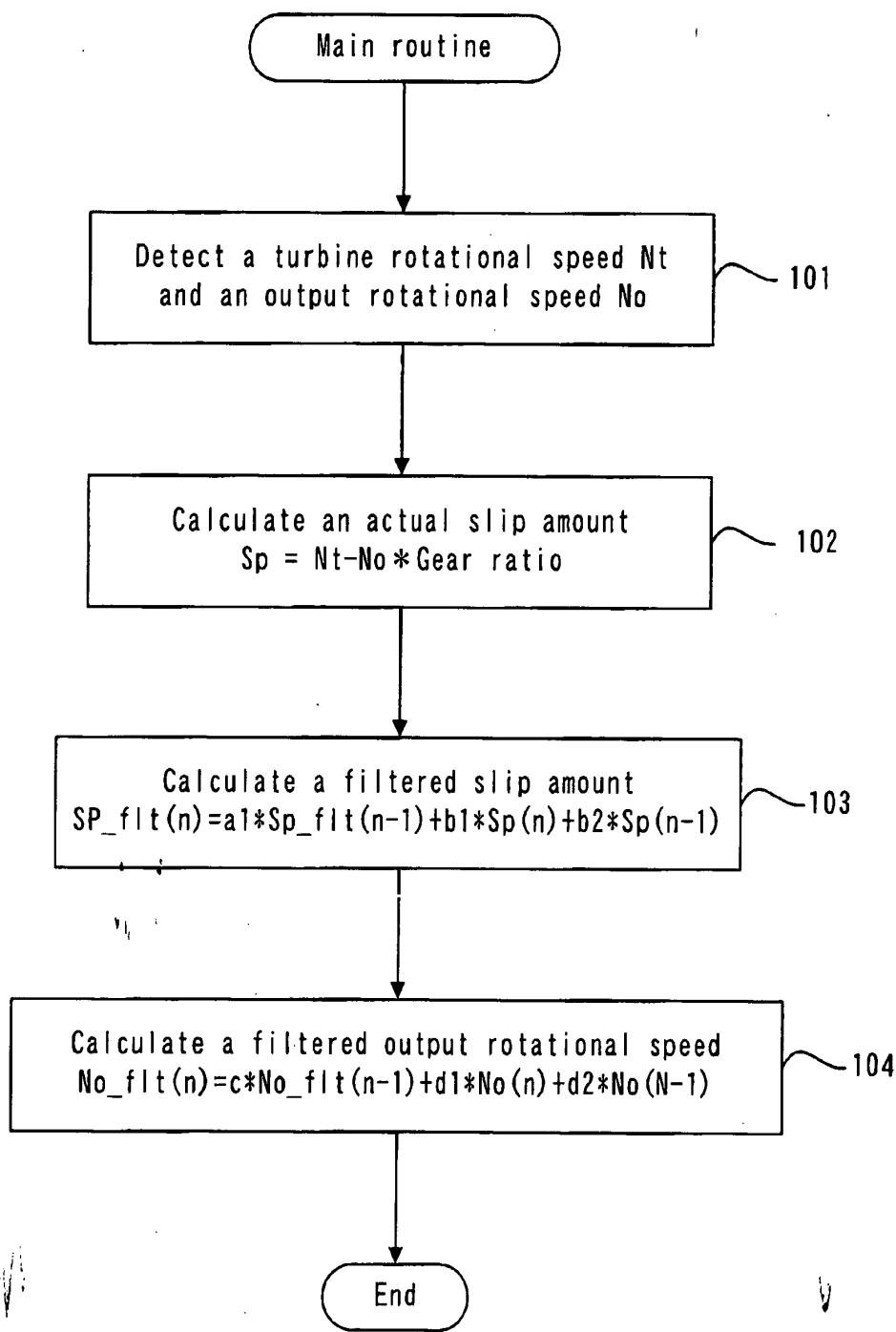


FIG. 13

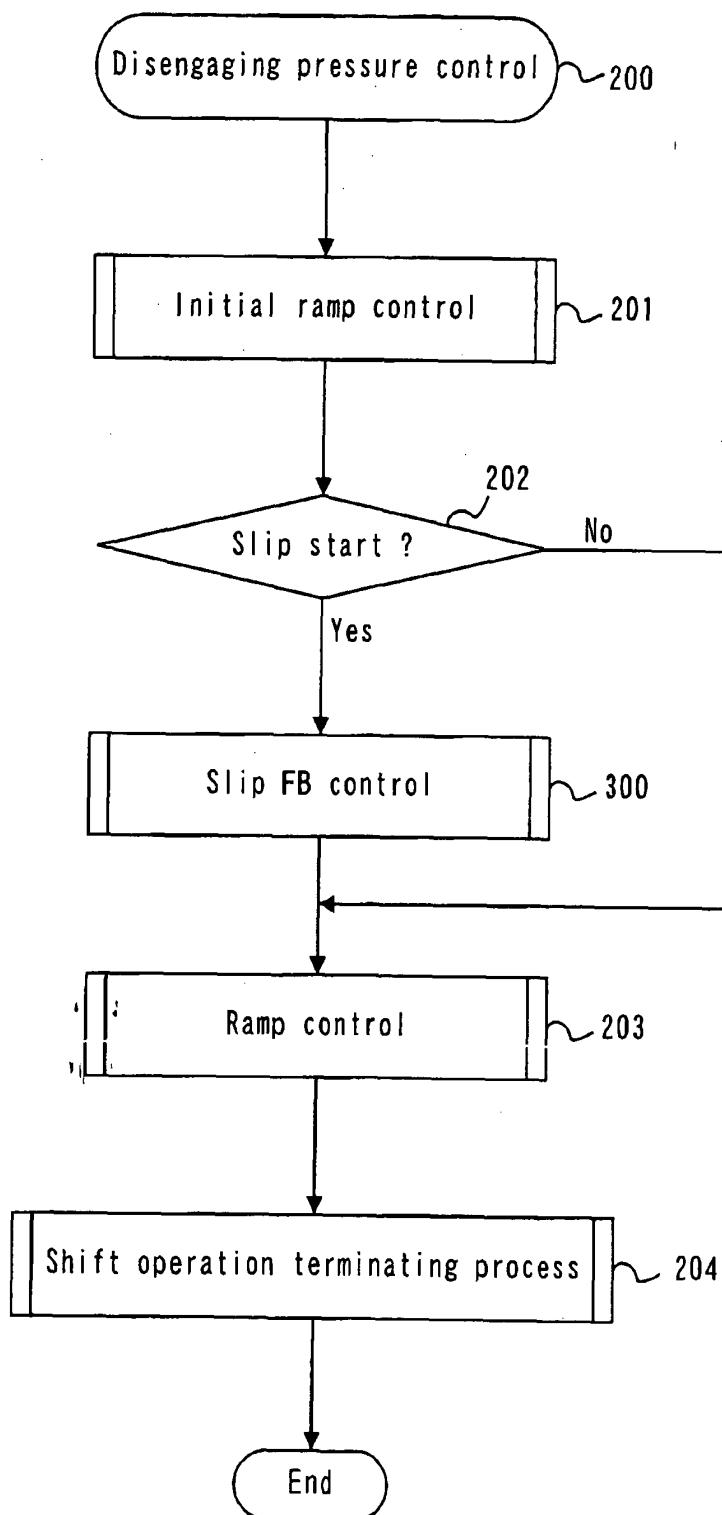


FIG. 14

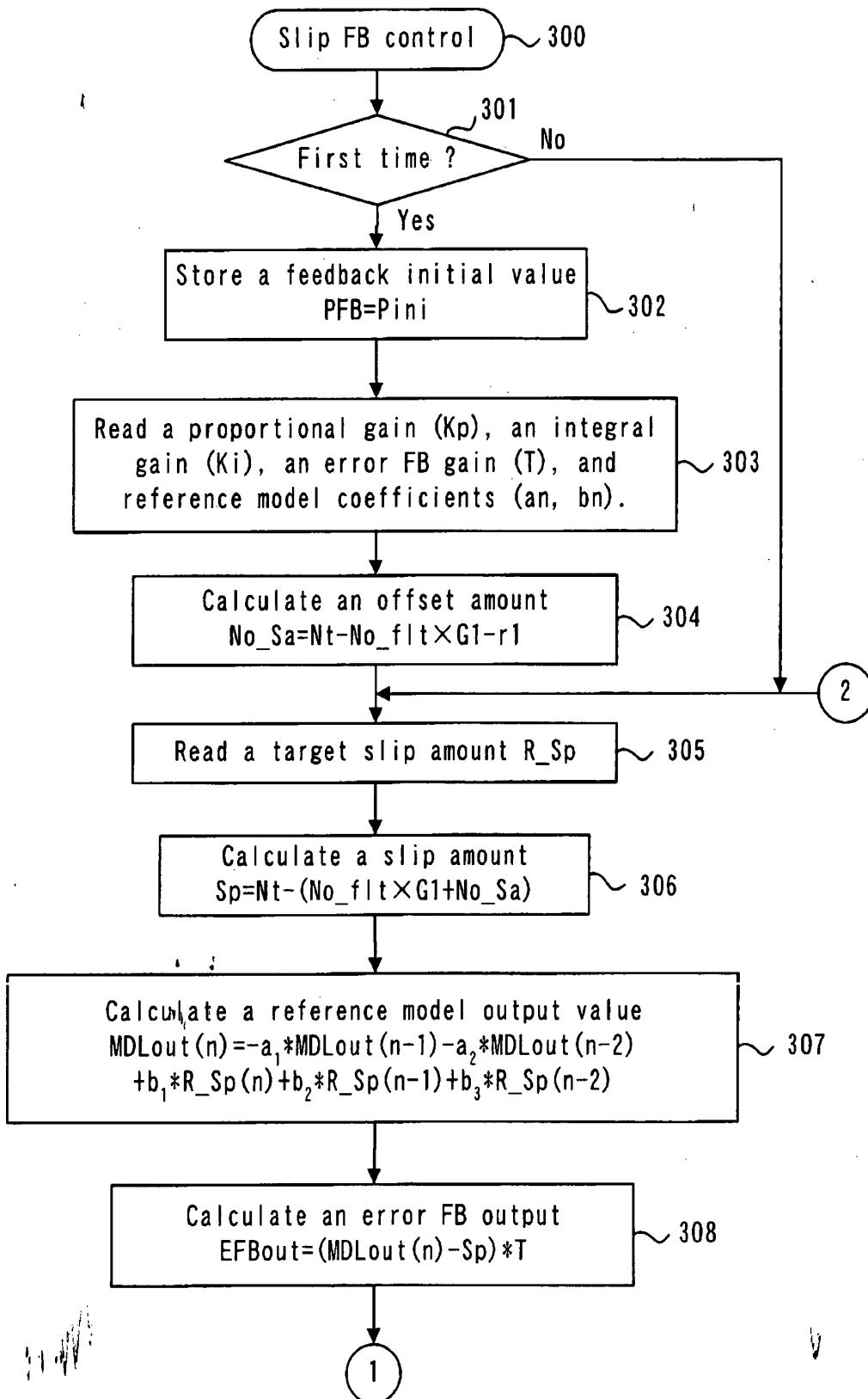


FIG. 15

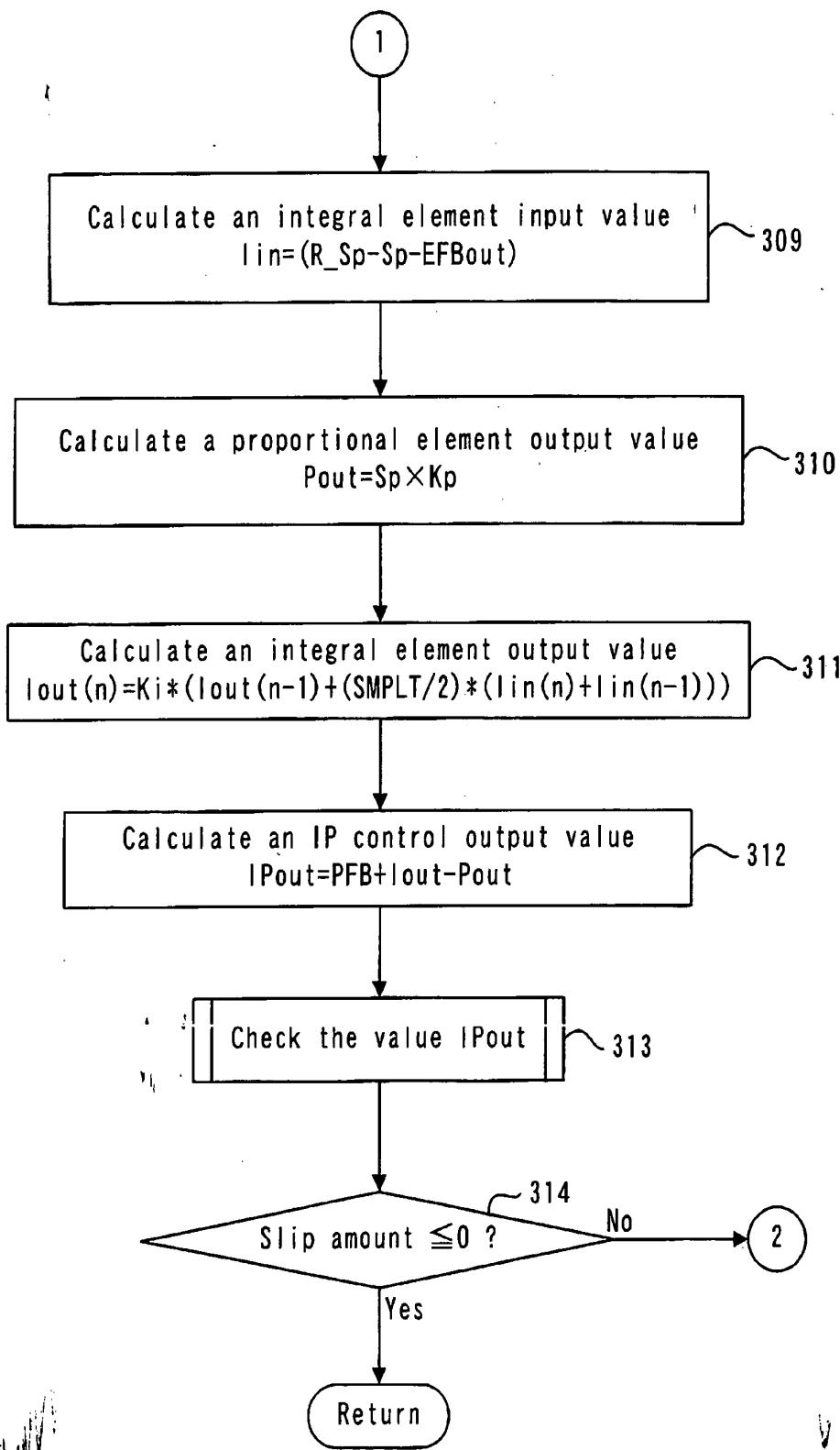


FIG. 16

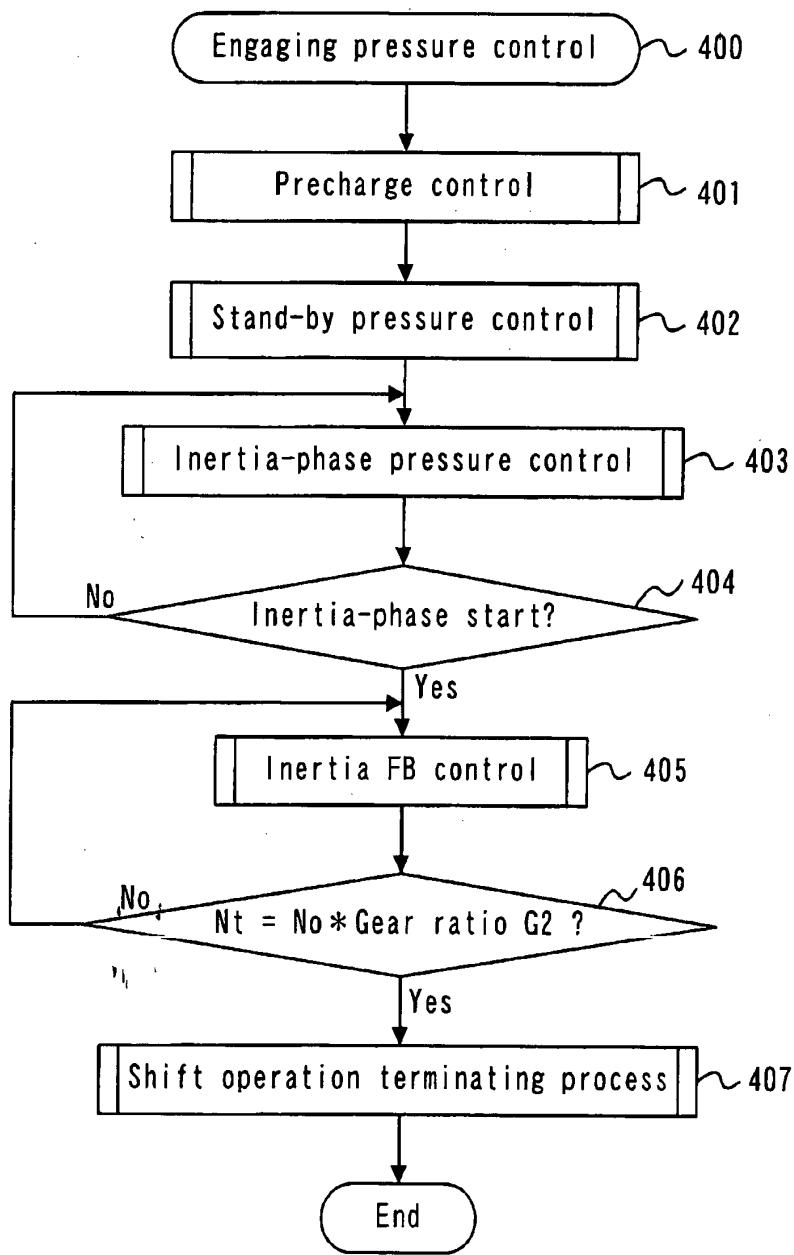
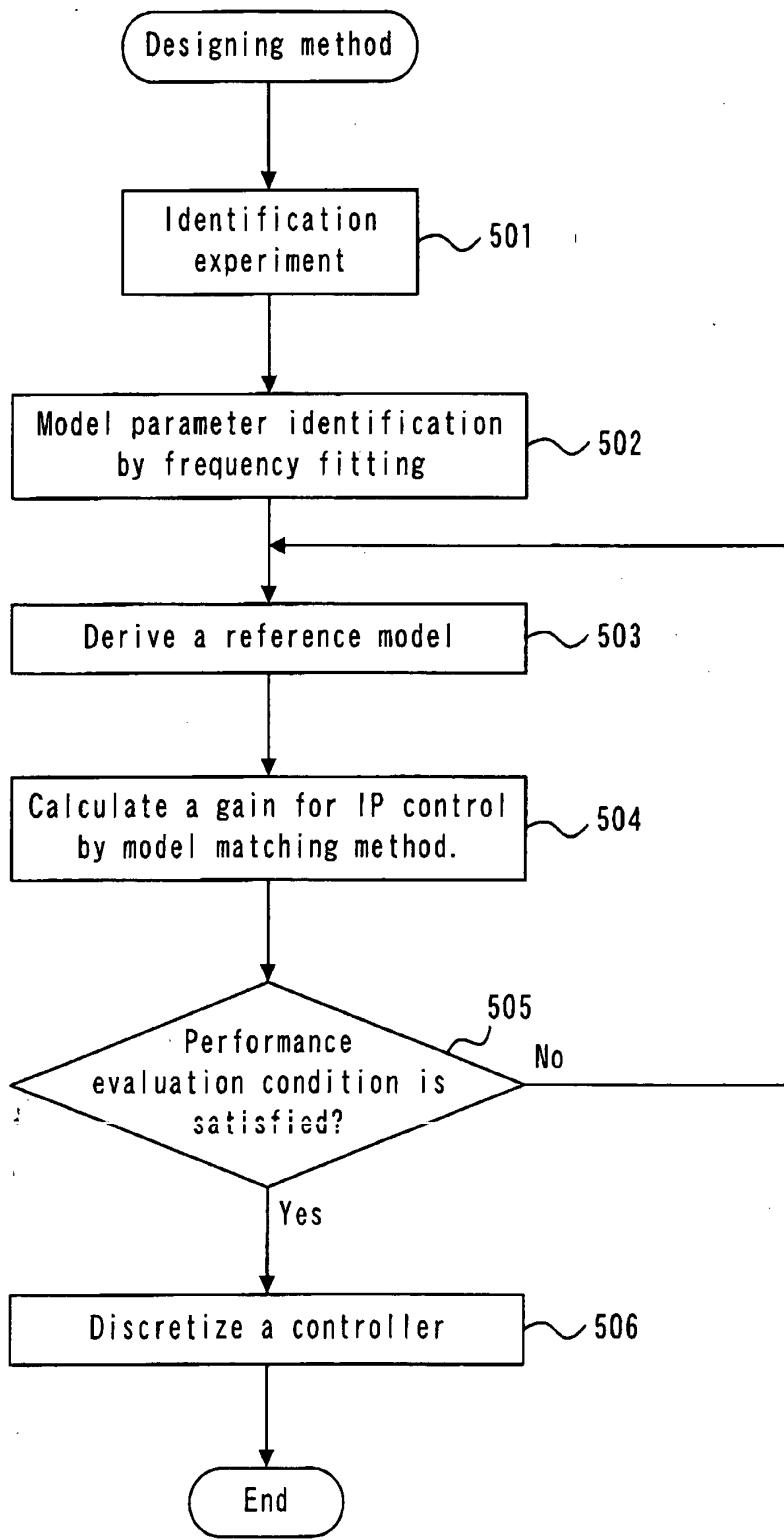


FIG. 17



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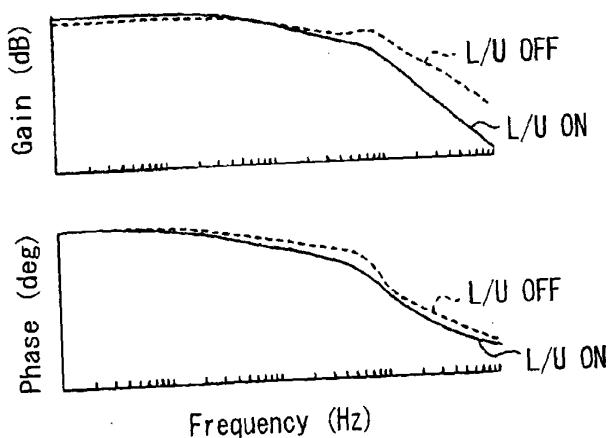
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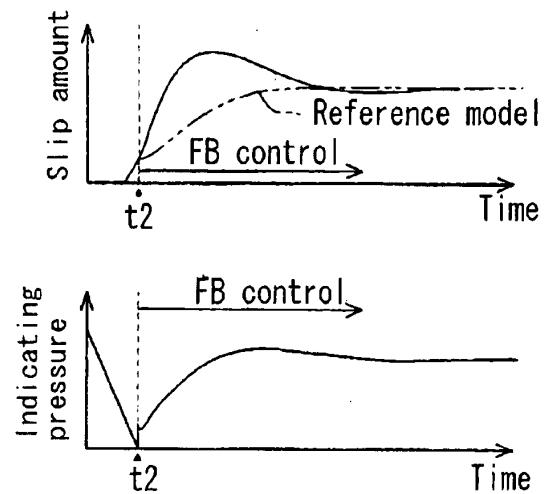
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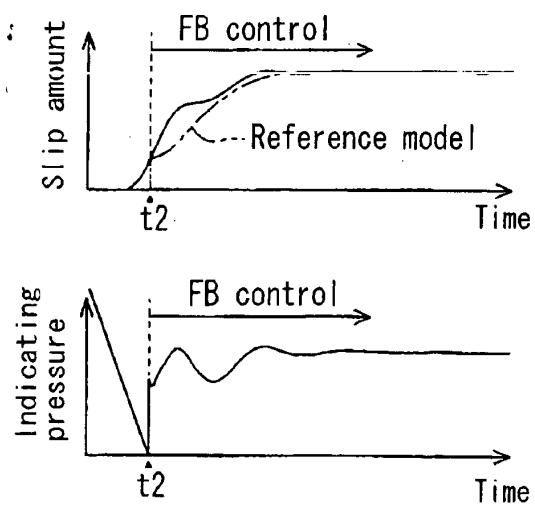
FIG. 18



F I G. 19 (a)



F I G. 19 (b)



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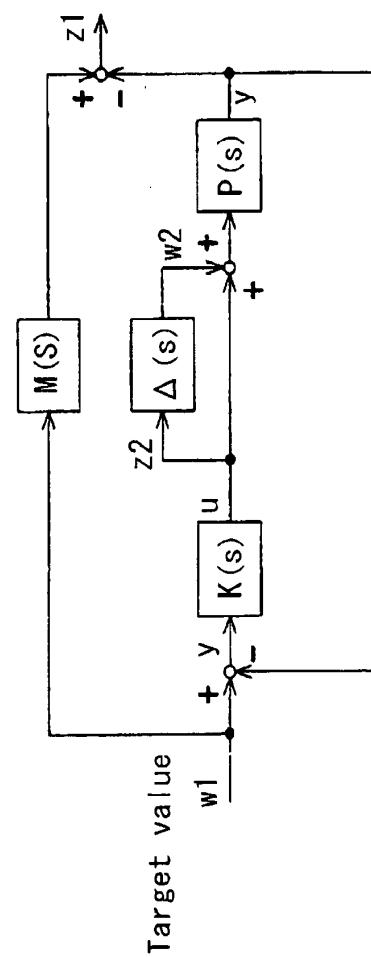
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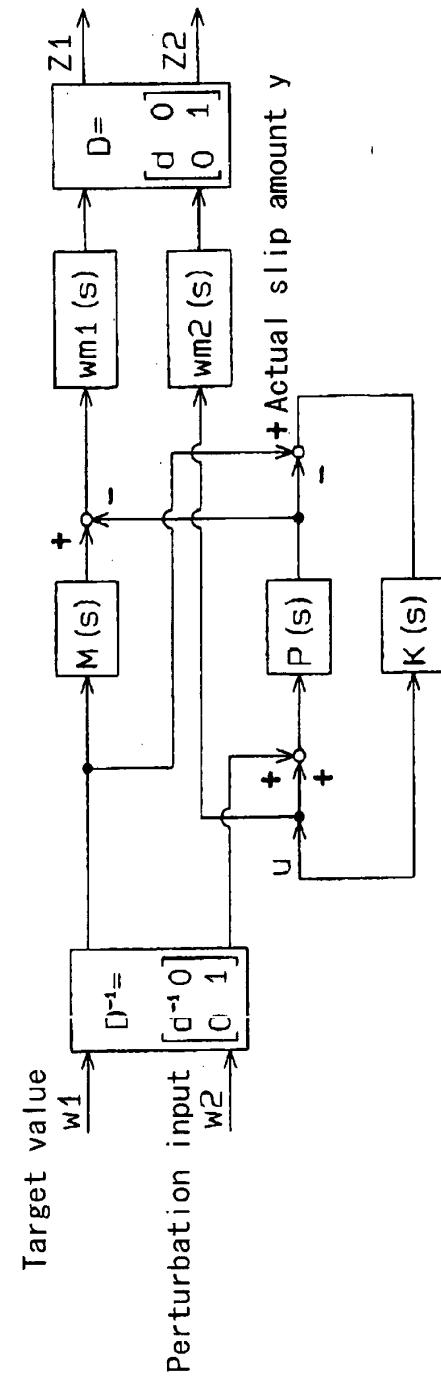
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FIG. 20



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FIG. 21



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FIG. 22

